

What is claimed is:

1. An electrodeposited copper foil having a surface roughness at a deposition surface at ordinary temperature smaller than $2.5\text{ }\mu\text{m}$ in terms of 10-point average roughness R_z , having a minimum distance between peaks of a base foil peak of at least $5\text{ }\mu\text{m}$, having an ordinary temperature tensile strength of not more than 40 kg/mm^2 , and having a drop in ordinary temperature tensile strength after heat treatment at 130°C for 15 hours of less than 15%.
2. An electrodeposited copper foil as set forth in claim 1, which does not soften under heat after said heat treatment.
3. An electrodeposited copper foil as set forth in claim 2, wherein the elongation rate at ordinary temperature is at least 14% at a thickness of $35\text{ }\mu\text{m}$ and wherein the elongation rate increases along with a rise in temperature in an atmosphere from ordinary temperature to 200°C .
4. An electrodeposited copper foil for a secondary battery collector using a foil as set forth in any one of claims 1 to 3.
5. An electrodeposited copper foil for a secondary battery collector as set forth in claim 4, wherein said secondary battery is a Li-ion battery.